



ALTERNATIVE TO PTO/SB/08a/b (06-03)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/759,841
				Filing Date	January 15, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1636
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	546322000302

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
BW	1.	WO-99/09045	02-25-1999	Somagenics, Inc.		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	2.	European Search Report mailed June 3, 2005, for European patent application no. 04015041, filed March 19, 1999, 4 pages	
BW	3.	BASS, Brenda L. (May 24, 2001) "RNA Interference: The Short Answer," Nature, 411:428-429	
BW	4.	HARBORTH, Jens et al. (2001) "Identification of Essential Genes in Cultured Mammalian Cells Using Small Interfering RNAs," Journal of Cell Science, 114:4557-4565	
BW	5.	MANCHE, Lisa et al. (Nov. 1992) "Interactions Between Double-Stranded RNA Regulators and the Protein Kinase DAI," Molecular and Cellular Biology, 12(11):5238-5248	
BW	6.	PADDISON, Patrick J. et al. (July 2002) "RNA Interference: The New Somatic Cell Genetics?" Cancer Cell, 2:17-23	

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Examiner Signature	/Brian Whiteman/	Date Considered	01/12/2007
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sf-1955282

ALTERNATIVE TO PTO FORM 1449 (08-03)

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/759,841
		Filing Date	January 15, 2004
		First Named Inventor	Michael W. GRAHAM
		Art Unit	1632
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	546322000302
Sheet	1	of	1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number/Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BW	AA	US 5,578,716	11-26-1998	Szyf et al.	
BW	AB	US 5,998,383	12-07-1999	Wright et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BW	BA	WO 85/15378	06-08-1995		

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BW	CA	Agrawal et al. (2000) "Antisense therapeutics: is it as simple as complementary base recognition?" <i>Molecular Medicine Today</i> 6: 72-81.			
BW	CB	Cameron et al. (1994) "Multiple Domains in a Ribozyme Construct Confer Increased Suppressible Activity in Monkey Cells" <i>Antisense Research and Development</i> 4: 87-94.			
BW	CC	Harborth et al. (2003) "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing" <i>Antisense and Nucleic Acid Drug Development</i> 13: 83-105.			
BW	CD	Holen et al. (2002) "Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor" <i>Nucleic Acids Research</i> 30 (8): 1757-1768.			
BW	CE	Jen et al. (2000) "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies" <i>Stem Cells</i> 18: 307-319.			
BW	CF	McManus et al. (2002) "Gene Silencing using micro-RNA designed hairpins" <i>RNA</i> 8: 842-850.			
BW	CG	McManus et al. (2002) "Small Interfering RNA-Mediated Gene Silencing in T Lymphocytes" <i>Journal of Immunology</i> 169: 5754-5760.			
BW	CH	Opalinska et al. (2002) "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications" <i>Nature Reviews</i> 1: 503-514.			
BW	CI	Randall et al. (2003) "Clearance of replicating hepatitis C virus replicon RNAs in cell culture by small interfering RNAs" <i>PNAS</i> 100 (1): 235-240.			

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ALTERNATIVE TO PTO/SB/08a/b (08-03)

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		Application Number	10/759,841		
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		First Named Inventor	Michael W. GRAHAM		
		Art Unit	1632		
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BW	AA	US 4,766,072	08-23-1988	Jendrisak et al.	
	AB	US 5,190,931	03-02-1993	Inouye	
	AC	US 5,208,149	05-04-1993	Inouye	
	AD	US 5,272,065	12-21-1993	Inouye et al.	
	AE	US 2003/0056235 A1 with amendments	03-20-2003	Fire et al.	
	AF	US 2004/0064842 A1	04-01-2004	Graham et al.	
	AG	US 2004/0237145 A1	11-25-2004	Graham et al.	
	AH	US 2004/0266005 A1	12-30-2004	Graham et al.	
BW	AI	US 09/646,807		Graham et al.	

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BW	BA	WO 97/44450	11-27-1997		WO	
BW	BB	WO 03/022052	03-20-2003		WO	
BW	BC	WO 03/056012	07-10-2003		WO	

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BW	CA	COHLI ET AL. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" Antisense Research and Development 4: 19-26.	
BW	CB	FIRE ET AL. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in C. Elegans Muscle" Development, 113(2): 503-514.	
BW	CC	FRASER ET AL. (1996) "Effects of c-myc first exons and 5' synthetic hairpins on RNA translation in oocytes and early embryos of Xenopus laevis" Oncogene 12(6):1223-30.	
BW	CD	Hungarian Patent Office Search Report mailed July 13, 2004, for Hungary patent application no. P0101225, 1 page.	
BW	CE	KIBLER ET AL. (1997) "Double Stranded RNA is a Trigger for Apoptosis in Vaccinia Virus Infected Cells" Journal of Virology, 71(3): 1992-2003.	
BW	CF	KOZAK (1989) "Circumstances and mechanisms of inhibition of translation by secondary structure in eucaryotic mRNAs" Mol. Cell. Biol. 9:5134-5142.	

Examiner Signature		Date Considered	
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sf-1856861

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/759,841
				Filing Date	January 15, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1632
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	546322000302

BW	CG	LIEBHABER ET AL. (1992) "Translation inhibition by an mRNA coding region secondary structure is determined by its proximity to the AUG initiation codon" J. Mol. Biol. 226:609-621.	
BW	CH	LINGELBACH ET AL. (1988) "An extended RNA/RNA duplex structure within the coding region of mRNA does not block translational elongation" Nuc. Acids Res. 16 3405-3414.	
BW	CI	LOOMIS ET AL. (1991) "Antisense RNA inhibition of expression of a pair of tandemly repeated genes results in a delay in cell-cell adhesion in Dictyostelium" Antisense Res. Dev.1:255-260.	
BW	CJ	MIKOSHIBA ET AL. (1991) "Molecular biology of myelin basic protein: gene rearrangement and expression of anti-sense RNA in myelin-deficient mutants" Comp. Biochem. Physiol. 98:51-61.	
BW	CK	OKANO ET AL. (1991) "Myelin basic protein gene and the function of antisense RNA in its repression in myelin-deficient mutant mouse" J. Neurochem. 56:560-567.	
BW	CL	PELLETIER ET AL. (1985) "Insertion mutagenesis to increase secondary structure within the 5' noncoding region of a eukaryotic mRNA reduces translational efficiency" Cell, 40:515-526.	
BW	CM	WATSON (1988) "A new revision of the sequence of plasmid pBR322" Gene 70:399-403.	
BW	CN	WEAVER ET AL. (1981) "Introduction by molecular cloning of artifactual inverted sequences at the 5' terminus of the sense strand of bovine parathyroid hormone cDNA" PNAS 78: 4073-4077.	

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Examiner Signature	/Brian Whiteman/	Date Considered	01/12/2007
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sf-1856861

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ALTERNATIVE TO PTO/55/08a2 (09-05)

Substitute for form 1448/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/759,841		
		Filing Date	January 15, 2004		
		First Named Inventor	Michael W. GRAHAM		
		Art Unit	Not Yet Assigned		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	548322000902

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* - Number* - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*

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BW	1.	Piccin, et al. (2001) "Efficient and Heritable Functional Knock-out of an Adult Phenotype in Drosophila using a GAL4-Driven Hairpin RNA Incorporating a Heterologous Spacer" <i>Nucleic Acids Research</i> , 29(12) E55:1-5.	
BW	2.	Svoboda, P. et al. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" <i>Biochem Biophys Res Commun.</i> , 287(5): 1099-1104.	

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Examiner Signature	/Brian Whiteman/	Date Considered	01/12/2007
87-1838540			



Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number **546322000302**

Application Number **10/759,841**

Applicants

Michael Wayne GRAHAM et al.

Filing Date **January 15, 2004**

Group Art Unit Not Yet Assigned

Mailing Date

July 27, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
BW	1.	09/29/98	5,814,500	Dietz			
BW	2.	04/29/97	5,624,803	Noonberg et al.			
BW	3.	04/25/00	6,054,299	Conrad			
BW	4.	07/23/02	6,423,885 B1	Waterhouse et al.			
BW	5.	06/03/03	6,573,099	Graham			
BW	6.	03/20/03	2003/0056235 A1	Fire et al.			
BW	7.	02/20/03	2003/0036197 A1	Glassman et al.			
BW	8.	01/23/03	2003/0018993 A1	Gutterson et al.			
BW	9.	09/04/03	2003/0165894 A1	Waterhouse et al.			
BW	10.	04/17/03	2003/0074684 A1	Graham et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
BW	11.	05/22/98	AU 729454	AU			
	12.	06/14/95	EP 465572	EPO			
	13.	11/12/92	WO 92/19732	WIPO			
	14.	01/20/94	WO 94/01550	WIPO			
	15.	12/02/99	WO 99/61631	WIPO			
	16.	08/03/00	WO 00/44895	WIPO			
	17.	08/03/00	WO 00/44914	WIPO			
	18.	10/21/99	WO 99/53050	WIPO			
	19.	09/27/01	WO 01/70949	WIPO			
	20.	09/30/99	WO 99/49029	WIPO			
	21.	08/31/95	WO 95/23225	WIPO			
	22.	05/07/98	WO 98/18811	WIPO			
BW	23.	04/03/03	WO 03/027298	WIPO			

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DATE CONSIDERED:

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 546322000302	Application Number 10/759,841
	Applicants Michael Wayne GRAHAM et al.	
	Filing Date January 15, 2004	Group Art Unit Not Yet Assigned
	Mailing Date July 27, 2004	

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
BW	24..	Agrawal, Sudhir et al. (1995) "Self-Stabilized Oligonucleotides as Novel Antisense Agents" pp 105-120.
	25.	Agrawal, Neema et al. (2003) "RNA Interference: Biology, Mechanism, and Applications" Microb. Mol. Biol. Rev. 67:657-685
	26.	Strauss, Evelyn (1999) "Candidate Gene Silencers' Found" Science Vol. 286, pg 886.
	27.	Bahramian, Mohammad B. and Zarbl, Helmut (1999) "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene" Molecular and Cellular Biology, Vol 19, No. 1: 274-283.
	28.	Bhan, Purshotam et al. (1997) "2',5'-Linked Oligo-3'-deoxyribonucleoside Phosphorothiate Chimeras: Thermal Stability and Antisense Inhibition of Gene Expression" Nucleic Acids Research, Vol. 1, No. 16: 3310-3317.
	29.	Couzin, Jennifer (2002) "Small RNAs Make Big Splash" Science 298: 2296-2297
	30.	Czauderna, Frank et al. (2003) "Structural Variations and Stabilising Modifications of Synthetic siRNAs in Mammalian Cells" Nucleic Acids Research Vol. 31, No. 11: 1-12.
	31.	Elbashir, Sayda M. et al. (2001) "Functional Anatomy of siRNAs for mediating Efficient RNAi in Drosophila Melanogaster Embryo Lysate" The EMBO Journal, Vol. 20, No. 23: 6877-6888.
	32.	Elbashir, Sayda M. et al. (2002) "Analysis of Gene Function in Somatic Mammalian Cells Using Small Interfering RNAs" Methods 26: 199-213.
	33.	Grasby, Jane A. et al. "Purine Functional Groups in Essential Residues of the Hairpin Ribozyme Required for Catalytic Cleavage of RNA" Biochemistry 34: 4068-4076.
	34.	Griffey, Richard H. et al. (1996) "2'-O-Aminopropyl Ribonucleotides: A Zwitterionic Modification That Enhances The Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides" J. Med. Chem 39: 5100-5109.
	35.	Gryaznov, Sergei M. and Letsinger, Robert L. (1993) "Template Controlled Coupling and Recombination of Oligonucleotide Blocks Containing Thiophosphoryl Groups" Nucleic Acids Research, Vol. 21, No. 6: 1403-1408.
	36.	Ha, Ilho et al. (1996) "A Bulged 1in-4/1in-14 RNA Duplex is Sufficient For Caenorhabditis Elegans 1in-14 Temporal Gradient Formation" Gene and Development 10: 3041-3050.
	37.	Hoke, Glenn D. "Effects of Phosphorothioate Capping On Antisense Oligonucleotide Stability, Hybridization and Antiviral Efficacy Versus Herpes Simplex Virus Infection" et al. (1991) Nucleic Acids Research, Vol. 19, No. 20: 5743-5748.
BW	38.	Kennerdell, Jason R. and Carthew, Richard W. (1998) "Use of dsRNA-Mediated Genetic Interference to Demonstrate that Frizzled and Frizzled 2 Act in the Wingless Pathway" Cell, Vol. 95: 1017-1026

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Docket Number 546322000302

Application Number 10/759,841

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July 27, 2004

BW	39.	Kitabwalla, Moiz and Ruprecht, Ruth M. (2002) "RNA Interference - A New Weapon Against HIV and Beyond" N Engl J Med, Vol 347, No. 17: 1364-1367.
	40.	Kreutzer, R. et al. "Specific Inhibition of Viral Gene Expression by Double-Stranded RNA <i>in Vitro</i> " Fall Meeting S169.
	41.	Kumar Madhur and Carmichael, Gordon G. (1998) "Antisense RNA: Function and Fate of Duplex RNA in Cells of Higher Eukaryotes" Microbiology and Molecular Biology Reviews, Vol. 62, No. 4: 1415-1434.
	42.	Borecky, L. et al. (1981-1982) "Therapeutic Use of Double-Stranded RNAs in Man" Tex Rep Biol Med 14: 575-581.
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	45.	Lipinski, Christopher A. et al. (1997) "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings" Advanced Drug Delivery Reviews 23: 3-25.
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	48.	Ma, Michael Y. X. et al. (1993) "Design and Synthesis of RNA Miniduplexes via a Synthetic Linker Approach" Biochemistry 32: 1751-1758.
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	50.	Montgomery, Mary K. and Fire, Andrew (1998) "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression" TIG, Vol. 14, No. 7: 255-258.
	51.	Montgomery, Mary K. et al. (1998) "RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in <i>Caenorhabditis Elegans</i> " Proc. Natl. Acad. Sci. Vol. 95: 15502-15507.
	52.	Moss, Eric G. et al. (1997) "The Cold Shock Domain Protein LIN-28 Controls Development Timing in <i>C. Elegans</i> and is Regulated by the <i>lin-4</i> RNA" Cell, Vol. 88: 637-646.
	53.	Nielsen, Paul et al. (1997) "A Novel Class of Conformationally Restricted Oligonucleotide Analogues: Synthesis of 2',3'-Bridged Monomers and RNA-Selective Hybridisation" Chem. Commun., pp 825-826.
	54.	Nikiforov, Theo T. and Connolly, Bernard A. (1992) "Oligodeoxynucleotides Containing 4-thiothymidine and 6-thiodeoxyguanosine as affinity labels for the Eco RV Restriction Endonuclease and Modification Methylase" Nucleic Acids Research, Vol. 20, No. 6: 1209-1214.
	55.	Doench, John G. et al. (2003) "siRNA Can Function as miRNAs" Genes and Development 17:438-442.
	56.	Sinha, Nanda D. (1997): "Large-Scale Synthesis: Approaches to Large-Scale Synthesis of Oligodeoxynucleotides and their Analogs" Antisense From Technology to Therapy Lab Manual and Textbook, Vol. 6: pp 30-58.
	57.	Skripkin, Eugene et al. (1996) "Porcine Crosslinking Between Human Immunodeficiency Virus Type 1 RNA and Primer tRNA _{Lys} " Nucleic Acids Research, Vol. 24, No. 3: 509-514.
BW	58.	Ngo, Huan et al. (1998) "Double-Stranded RNA Induces mRNA Degradation in <i>Trypanosoma Brucei</i> " Proc. Natl. Acad. Sci. Vol. 95: 14687-14692.

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Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 546322000302	Application Number 10/759,841
		Applicants Michael Wayne GRAHAM et al.	
		Filing Date January 15, 2004	Group Art Unit Not Yet Assigned
		Mailing Date July 27, 2004	
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Applicants

Michael Wayne GRAHAM et al.

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	100.	International Search Report mailed on May 10, 1999, for PCT patent application no. PCT/AU99/00195, filed on March 19, 1999, 3 pages.
	101.	Written Opinion mailed on April 17, 2004, for PCT application no PCT/AU03/01177 filed September 9, 2003, 7 pages.
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EXAMINER: /Brian Whiteman/

DATE CONSIDERED: 01/12/2007

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	Applicant Michael Wayne GRAHAM and Robert Norman RICE	
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BW	2.	7/27/1993	* 5,231,020	Jorgensen			
BW	3.	2/1/1994	* 5,283,184	Jorgensen			
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BW	5.	11/11/1997	* 5,686,649	Chua et al.			
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	13.	10/21/1997	* EP 0242016	EP				
	14.	6/9/1999	* EP 0921195	EP				
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	16.	10/18/1990	* WO 90/11682	WIPO				
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	20.	4/20/1995	* WO 95/10607	WIPO				
	21.	3/21/1996	* WO 96/08558	WIPO				
	22.	1/23/1997	* WO 97/01952	WIPO				
BW	23.	8/20/1998	* WO 98/36083	WIPO				

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